

To solve quadratics, we use something called... **Zero Product Property**: (also known as **ZPP**)

If  $a \cdot b = 0$  then, use the two steps for **ZPP**:

1.

2.

Solve the following quadratics using **ZPP**.

$$(x + 3)(x - 2) = 0$$

$$(x - 6)(x + 2) = 0$$

$$(x - 2)(3x + 9) = 0$$

$$(5x + 10)(x - 8) = 0$$

$$x^2 + 7x + 10 = 0$$

$$x^2 - 10x + 24 = 0$$

$$x^2 + x - 42 = 0$$

$$4x^2 - 28x + 48 = 0$$

$$x^3 + 4x^2 + 3x = 0$$

$$3x^3 - 21x^2 + 30x = 0$$

Let's try graphing one using the solutions and the vertex!

$$2x^2 - 8x - 10 = 0$$

